

AMENDMENTS TO THE CLAIMS:

Complete Listing of Claims

1 Claim 1. (currently amended) A hand-held computing device for teaching
2 procedures, comprising a sequence of mathematical operations for solving
3 mathematical problems, comprising:

4 a processor for performing mathematical operations;

5 a memory including first areas for storing a master group of mathematical
6 operations for solving mathematical problems, which operations are performable
7 by said processor, said memory further including second areas for storing a
8 "problem" linked list of mathematical problems which includes ~~may include~~
9 algebraic expression, said "problem" linked list comprising a first data set, said
10 memory further including a third area for storing a mathematical "operations"
11 linked list of selected ones of said master list of mathematical operations
12 applicable to a selected mathematical problem of said "problem" linked list, said
13 "operations" linked list not limited to a mathematical operation which leads to a
14 solution of said selected mathematical problems;

15 a display for displaying multi-lines of information including said selected
16 mathematical problem and said "operations" linked lists of mathematical
17 operations related to said selected mathematical problem; and

18 an input device for inputting information related to mathematical problems
19 and for selecting a mathematical operation to be performed on a selected
20 mathematical problem from said mathematical "operations" linked list.

1 Claim 2. (original) The computing device of Claim 1 and further comprising an
2 input/output port for sending and receiving data.

1 Claim 3. (currently amended) The hand-held computing device of Claim 1
2 wherein said memory includes and further area for comprising storing additional
3 linked lists of mathematical problems which include algebraic equations, each
4 additional linked list comprising a different data set.

1 Claim 4. (currently amended) The hand-held computing device of Claim 1
2 wherein said display provides menus, and a the user may manipulate different
3 problem data sets in response to said menus ~~menu-displays~~.

1 Claim 5. (original) The hand-held device of Claim 4 wherein manipulating said
2 problem set includes opening a problem data set, creating a new problem data
3 set, and saving the problem data set under a new name.

1 Claim 6. (currently amended) The hand-held computing device of Claim 5
2 wherein said display and further provides comprising ~~comprising display~~ menu items for
3 deleting problems, adding problems, or changing problems listed in an open
4 problem data set.

1 Claim 7. (currently amended) A method of operating a hand-held computing
2 device having a multi-line display, a processor, a keyboard and memory for
3 teaching procedures, comprising a sequence of mathematical operations for
4 solving mathematical problems, comprising the steps of:

5 determining a master group of mathematical operations performable by
6 said processor;

7 storing at least one "problem" linked list of mathematical problems as a
8 problem data set in said memory;

9 selecting one of said mathematical problems from said at least one
10 "problem" linked list for solving;

11 displaying said selected mathematical problem on said display;

12 storing as a mathematical "operations" linked list, mathematical operations
13 from said master group which are applicable to said selected mathematical
14 problem;

15 displaying selected mathematical operations from said mathematical
16 operations-linked list, said selected displayed mathematical operations being
17 immediately operable on said selected mathematical problem and not limited to
18 mathematical operations which always lead to a solution of said selected
19 mathematical problem;

20 choosing one of said displayed mathematical operations;

21 operating on said selected mathematical problem with said chosen
22 mathematical operation; and

23 displaying the results of applying said chosen mathematical operation to
24 said selected mathematical problem.

1 Claim 8. (original) The method of Claim 7 and comprising the further steps of
2 selecting the displayed results as the mathematical problem to be solved and
3 then repeating the steps of "displaying said mathematical problem through the
4 step of "displaying the results."

1 Claim 9. (original) The method of Claim 7 wherein said hand-held computing
2 device includes an input/output port and further comprising the steps of providing
3 a connection between said hand-held computing device and another computing
4 device and then receiving said mathematical problems in said problem-linked list
5 from said another computing device.

1 Claim 10. (original) The method of Claim 7 wherein said hand-held computing
2 device includes and input/output port and further comprises the steps of
3 providing a connection between said hand-held computing device and another
4 computing device and then exchanging data there between.

1 Claim 11. (original) The method of Claim 7 and further comprising the steps of
2 providing said hand-held computing device.

1 Claim 12. (original) The method of Claim 11 wherein said step of providing a
2 hand-held computing device comprises the step of providing a device selected
3 from the group of devices including TI-89 and TI-92 Plus.

1 Claim 13. (original) The method of Claim 7 and further comprising the steps of
2 storing at least two "problem" linked lists of mathematical problems as additional
3 problem data sets and selecting one of at least two said problem data sets as
4 the source of problems to be solved.

1 Claim 14. (original) The method of Claim 13 and further comprising changing
2 the selected problem data set by deleting problems from said selected problem
3 set or adding problems to said selected problem set.

1 Claim 15. (original) The method of Claim 13 and further comprising the steps of
2 transforming one or more problems from at least one of said problem data sets
3 to another one of said problem data sets.

1 Claim 16. (currently amended) A method of operating a hand-held computing
2 device having a multi-line display, a processor, a keyboard and memory for
3 teaching procedures for solving mathematical problems comprising the steps of:
4 ~~determining a master group of mathematical operations performable by~~
5 ~~said processor;~~

6 storing at least one "problem" linked list of mathematical problems as a
7 problem data set in said memory;

8 determining a master group of mathematical operations performable by
9 said processor and applicable to a selected mathematical problem of said
10 "problem" linked list, and storing said master group as a linked list;

11 selecting one of said mathematical problems from said at least one
12 "problem" linked list for solving;

13 displaying said selected mathematical problem on said display;

14 choosing a mathematical operation from said stored master group;

15 operating on said selected mathematical problem with said chosen
16 mathematical operation; and

17 displaying the results of applying said chosen mathematical operation to
18 said selected mathematical problem.

1 Claim 17. (original) The method of Claim 16 and comprising the further steps of
2 selecting the displayed results as the mathematical problem to be solved and
3 then repeating the steps of "displaying said selected mathematical problem"
4 through the step of "displaying the results."

1 Claim 18. (original) The method of Claim 16 wherein said hand-held computing
2 device includes an input/output port and further comprising the steps of providing
3 a connection between said hand-held computing device and another computing
4 device and then receiving said mathematical problems in said "problem" linked
5 list from said another computing device.

1 Claim 19. (original) The method of Claim 16 wherein said hand-held computing
2 device includes an input/output port and further comprises the steps of providing
3 a connection between said hand-held computing device and another computing
4 device and then exchanging data there between.

1 Claim 20. (currently amended) The method of Claim 16 wherein and further
2 comprising the steps of providing said hand-held computing device comprises a
3 device selected from the group of devices including TI-89 and TI-92 Plus.

1 Claim 21. (original) The method of Claim 16 and further comprising the steps of
2 storing at least two "problem" linked lists of mathematical problems as additional
3 problem data sets and selecting one of at least two said problem data sets as
4 the source of problems to be solved.

1 Claim 22. (original) The method of Claim 21 and further comprising changing the
2 selected problem data set by deleting problems from said selected problem set
3 or adding problems to said selected problem set.

- 1 Claim 23. (original) The method of Claim 21 and further comprising the steps of
- 2 transforming one or more problems from at least one of said problem data sets
- 3 to another one of said problem data sets.